

10/534687

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PATENT

#2

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

(Attorney Docket No.: 42697.149 US3)

Applicant(s): Gordon, et al.
Serial No.: TBA
Filed: May 12, 2005
For: **ATOMIC LAYER DEPOSITION USING METAL AMIDINATES**
Group Art Unit: TBA
Examiner: TBA

MS PCT
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

CERTIFICATE OF EXPRESS MAILING UNDER 37 CFR §1.10

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5/12/2005
Date

Jo-Ann Bergantino
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INFORMATION DISCLOSURE STATEMENT

Commissioner:

Applicants and their legal representatives hereby make of record on the attached PTO Form-1449 the following publications, which are known to them and considered warranting disclosure under 37 C.F.R. §1.56 and §1.97 and hereby submit these documents for the Examiner's consideration.

Some of the references listed on the Form PTO 1449 were cited in the International Search Report of PCT/US2003/036568. A copy of the International Search Report is enclosed for the examiner's review. Copies of the cited U.S. patent references are not enclosed as the requirement under 37 CFR 1.98(a)(2)(i) has been waived.

It is respectfully requested that the information above be expressly considered during the prosecution of this application and that the publications be made of record therein and appear among the "References Cited" on any patent to issue therefrom. In this regard, it is requested

that the Examiner initial and return a copy of the enclosed Form PTO-1449 with the next Patent Office Communication.

This submission does not represent that a search has been made and does not constitute an admission that the listed documents are material to patentability or that the listed documents are prior art.

If it should be determined that any of the listed documents do not constitute "prior art" under United States law, Applicants reserve the right to present to the Office the relevant facts and law regarding the appropriate status of such documents.

Applicants further reserve the right to take appropriate action to establish the patentability of the disclosed invention over the listed documents, should one or more of the documents be applied against the claims of the present application.

This Information Disclosure Statement is being filed before the mailing date of a first Office Action on the merits, and therefore no fee is believed to be due. The Commissioner, however, is hereby authorized to charge any fees necessary to maintain the pendency of this application to Deposit Account No. 08-0219.

Respectfully submitted,

Date: May 12, 2005

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Substitute for form 1449/PTO		Application Number 10/534687	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(Use as many sheets as necessary)</i>		Filing Date May 12, 2005	
		First Named Inventor Roy G. Gordon	
		Art Unit TBA	
		Examiner Name TBA	
		Attorney Docket Number 42697.149 US3	
Sheet 1	of 1		

U. S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ^{2 (if known)}			
		US 2002/0081381 A1	06/27/2002	DelaRosa et al.	
		US 2002/0132375 A1	09/19/2002	Doan et al.	
		US 2002/0173054 A1	11/21/2002	Kim	
		US 2005/0042372 A1	02/24/2005	Denk et al.	
		US 5,235,078	08/10/1993	Pohl et al.	
		US 5,834,058	11/10/1998	Wallbridge et al.	
		US 6,211,090	04/03/2001	Durlam et al.	
		US 6,294,836	09/25/2001	Paranjpe et al.	
		US 6,444,263	09/03/2002	Paranjpe et al.	

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ^{2 (if known)}			
		GB 2295392 A	05/29/1996	The Associated Octel Co. Ltd.	
		GB 2295393 A	05/29/1996	The Associated Octel Co. Ltd.	

NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
		BARKER, J. et al., <i>N,N'</i> -Unsubstituted amidinato metallacycle complexes of Group 13 metal alkyls: the crystal structure of trimeric [(Me ₂ Al(μ-HNCPhNH)) ₃], <i>Journal of Organometallic Chemistry</i> , 1999, 138-144, 586.	
		BARKER, J. et al., The coordination chemistry of the amidine ligand, <i>Coordination Chemistry Reviews</i> , 1994, 219-300, 133.	
		COLES, M.P. et al., Synthesis and Structures of Mono- and Bis(amidinate) Complexes of Aluminum, <i>Organometallics</i> , 1997, 5183-5194, 16.	
		EDELMANN, F.T., N-silylated benzamidines: versatile building blocks in main group and coordination chemistry, <i>Coordination Chemistry Reviews</i> , 1994, 403-481, 137.	
		MARTENSSON, P. et al., Atomic Layer Epitaxy of Copper, <i>J. Electrochem. Soc.</i> , August 1998, 2926-2931, Vol. 145.	
		SADIQUE, A.R. et al., A Weak, Short Metal-Metal Bond in a Chromium (II) Amidinate Complex, <i>J. Am. Chem. Soc.</i> , 2003, 7774-7775, 125.	
		SCHMIDT, J.A.R. et al., First-row transition metal complexes of sterically-hindered amidinates, <i>J. Chem. Soc., Dalton Trans.</i> , 2002, 3454-3461.	
		SHIBAYAMA, K. et al., Living Polymerization of Carbodiimides Initiated by Copper(I) and Copper(II) Amidinate Complexes, <i>Macromolecules</i> , 1997, 3159-3163, 30.	

Examiner Signature	Date Considered
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*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹Applicant's unique citation designation number (optional). ²See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶Applicant is to place a check mark here if English language Translation is attached. This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is established to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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